

CAG	GTC	CAG	CTG	GTC	GAG	TCT	GGG	GGA	GGC	GTT	GTC	CAG	CCT	GGA	AGG	48
Gln	Vai	Gin	Leu	Vai	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg	
<u>1</u>																
TCC	CTG	AGA	CTC	TCC	TGT	GCA	GCC	TCT	GGA	TTC	ACC	TTC	AGT	AGC	TAT	96
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
GAC	ATG	TCT	TGG	GTT	CGC	CAG	GCT	CCG	GGC	AAG	GGT	CTG	GAG	TGG	GTC	144
Asp	Met	Ser	Trp	Vai	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Vai	
GCA	AAA	GTT	AGT	AGT	GTT	GGT	GGT	AGC	ACC	TAC	TAT	TTA	GAC	ACT	GTC	192
Ala	Lys	Vai	Ser	Ser	Gly	Gly	Gly	Ser	Thr	Tyr	Tyr	Tyr	Leu	Asp	Thr	Vai
CAG	GGC	CGA	TTC	ACC	ATC	TCC	AGA	GAC	AAT	AGT	AAG	AAC	ACC	CTA	TAC	240
Gln	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
CTG	CAA	ATG	AAC	TCT	CTG	AGA	GCC	GAG	GAC	ACA	GCC	GTC	TAT	TAC	TGT	288
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
GCA	AGA	CAT	AAC	TAC	GGC	AGT	TTT	GCT	TAC	TGG	GGC	CAA	GGG	ACT	ACA	336
Ala	Arg		Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Thr	
GTG	ACT	GTT	TCT	AGT												351
Val	Thr	Vai	Ser	Ser												

FIG. IA

GAG ATT GTG CTA ACT CAG TCT CCA GCC ACC CTG TCT CTC AGC CCA GGA	48
Glu Ile Val Leu Thr 5	
GAA AGG GCG ACT CTT TCC TGC CAG GCC AGC CAA AGT ATT AGC AAC CAC	96
Glu Arg Ala Thr Leu Ser Cys Gln Ala Ser Gln Ser Ile Ser Asn His	
CTA CAC TGG TAT CAA CAA AGG CCT GGT CAA GCC CCA AGG CTT CTC ATC	144
Leu His Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile	
AAG TAT CGT TCC CAG TCC ATC TCT GGG ATC CCC GCC AGG TTC AGT GGC	192
Lys Tyr Arg Ser Gln Ser Ile Ser Gly Ile Pro Ala Arg Phe Ser Gly	
AGT GGA TCA GGG ACA GAT TTC ACC CTC ACT ATC TCC AGT CTG GAG CCT	240
Ser Gly Ser Gly Thr Asp Phe Thr Leu Ile Ser Ser Leu Glu Pro 80	
GAA GAT TTT GCA GTC TAT TAC TGT CAA CAG AGT GGC AGC TGG CCT CAC	288
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Ser Trp Pro His 95	
ACG TTC GGA GGG ACC AAG GTG GAA ATT AAG	321
Thr Phe Gly Gly Thr Lys Val Glu Ile Lys 105	

FIG. 1B

GAA	GTG	CAG	CTG	GTG	GAG	TCT	GGG	GGG	TTA	GTG	AAG	CCT	GGG	AGG	48
Glu	Val	Gin	Leu	Val	Glu	Ser	Gly	Gly	Leu	Val	Lys	Pro	Gly	Arg	
1															15
TCC	CTG	AGA	CTC	TCC	TGT	GCA	GCC	TCT	GGA	TTC	GCT	TTC	AGT	AGC	96
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ala	Phe	Ser	Ser	
															30
GAC	ATG	TCT	TGG	GTT	CGC	CAG	ATT	CCG	GAG	AAG	CTG	GAG	TGG	GTC	144
Asp	Met	Ser	Trp	Val	Arg	Gln	Ile	Pro	Glu	Lys	Arg	Leu	Glu	Trp	
															45
GCA	AAA	GTT	AGT	AGT	GGT	GGT	AGC	ACC	TAC	TAT	TTA	GAC	ACT	GTC	192
Ala	Lys	Val	Ser	Ser	Gly	Gly	Ser	Thr	Tyr	Tyr	Leu	Asp	Thr	Val	
															60
CAG	GGC	CGA	TTC	ACC	ATC	TCC	AGA	GAC	AAT	GCC	AAG	AAC	CTA	TAC	240
Gln	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	
															75
CTG	CAA	ATG	AGC	AGT	CTG	AAC	TCT	GAG	GAC	ACA	GCC	ATG	TAT	TAC	288
Leu	Gln	Met	Ser	Ser	Leu	Asn	Ser	Glu	Asp	Thr	Ala	Met	Tyr	Tyr	
															90
GCA	AGA	CAT	AAC	TAC	GGC	AGT	TTT	GCT	TAC	TGG	GGC	CAA	GGG	ACT	336
Ala	Arg	His	Asn	Tyr	Gly	Ser	Phe	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	
															105
GTC	ACT	GTC	TCT	GCA											351
Vai	Thr	Val	Ser	Ala											
															115

FIG. 2A

GAT	ATT	GTG	CTA	ACT	CAG	TCT	CCA	GCC	ACC	CTG	TCT	GTG	ACA	CCA	GGA	48
Asp	Ile	Val	Leu	Thr	Gln	Ser	Pro	Ala	Thr	Leu	Ser	Val	Thr	Pro	Gly	
1																
GAT	AGC	GTC	AGT	CTT	TCC	TGC	CAG	GCC	AGC	CAA	AGT	ATT	AGC	AAC	CAC	96
Asp	Ser	Val	Ser	Leu	Ser	Cys	Gln	Ala	Ser	Gln	Ser	Ile	Ser	Asn	His	
CTA	CAC	TGG	TAT	CAA	AAA	TCA	CAT	GAG	TCT	CCA	AGG	CTT	CTC	ATC	ATC	144
Leu	His	Trp	Tyr	Gln	Gln	Lys	Ser	His	Glu	Ser	Pro	Arg	Leu	Leu	Ile	
AAG	TAT	CGT	TCC	CAG	TCC	ATC	TCT	GGG	ATC	CCC	TCC	AGG	TTC	AGT	GGC	192
Lys	Tyr	Arg	Ser	Gln	Ser	Ile	Ser	Gly	Ile	Pro	Ser	Arg	Phe	Ser	Gly	
AGT	GGA	TCA	GGG	ACA	GAT	TTC	GCT	CTC	AGT	ATC	AAC	AGT	GTG	GAG	ACT	240
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Ala	Leu	Ser	Ile	Asn	Ser	Vai	Glu	Thr	
65																
GAA	GAT	TTT	GGA	ATG	TAT	TTC	TGT	CAA	CAG	AGT	GGC	AGC	TGG	CCT	CAC	288
Glu	Asp	Phe	Gly	Met	Tyr	Phe	Cys	Gln	Gln	Ser	Gly	Ser	Trp	Pro	His	
ACG	TTC	GGA	GGG	GGG	ACC	AAG	CTG	GAA	ATT	AAG						321
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys						
100																

FIG. 2B

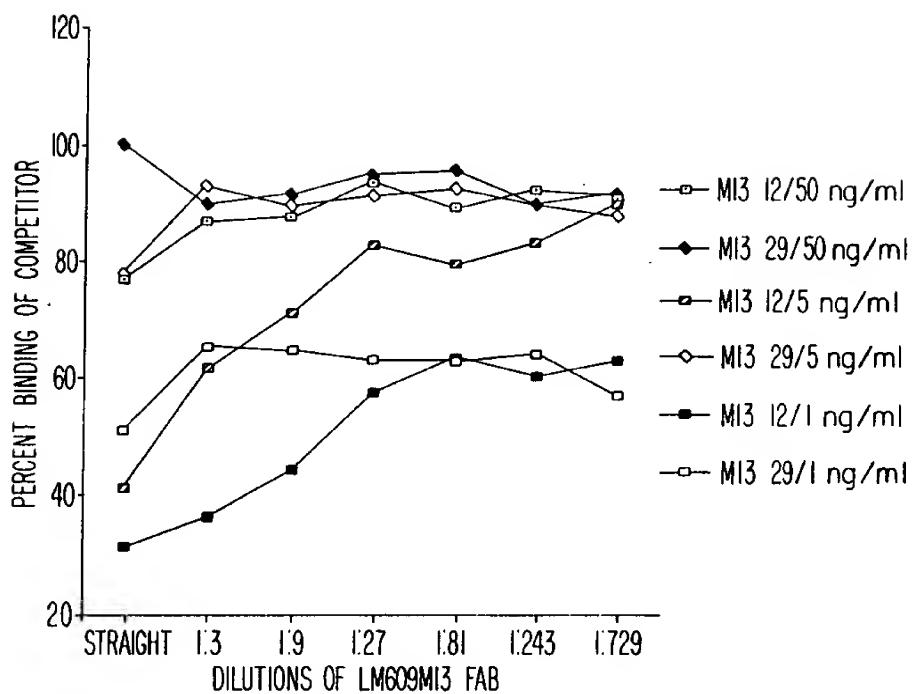


FIG. 3

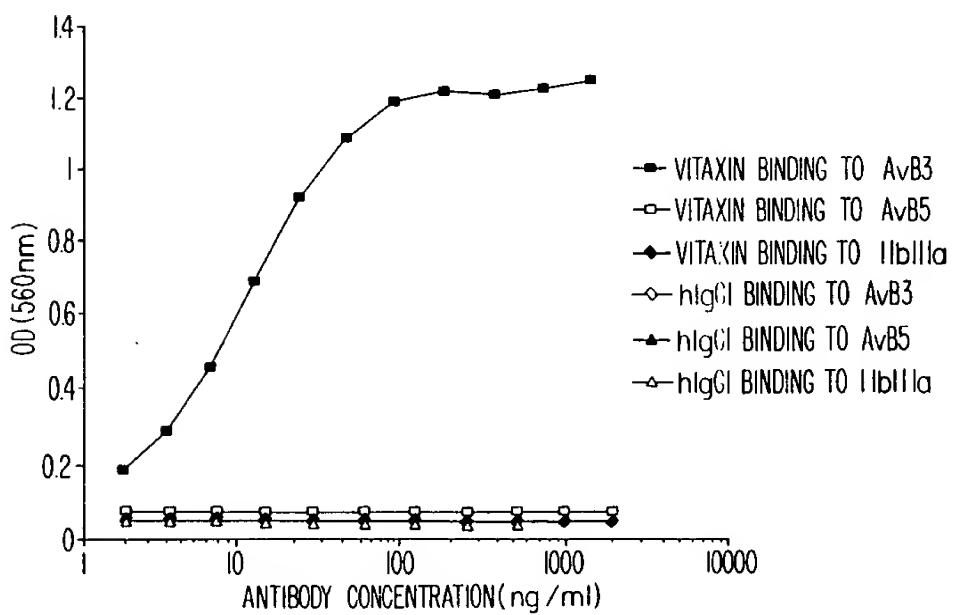


FIG. 4A

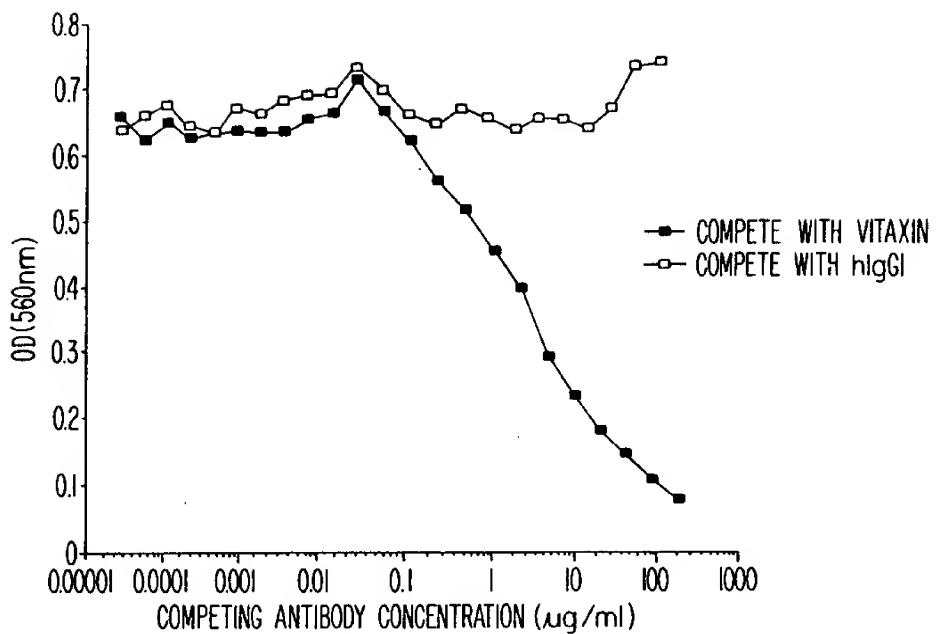


FIG. 4B

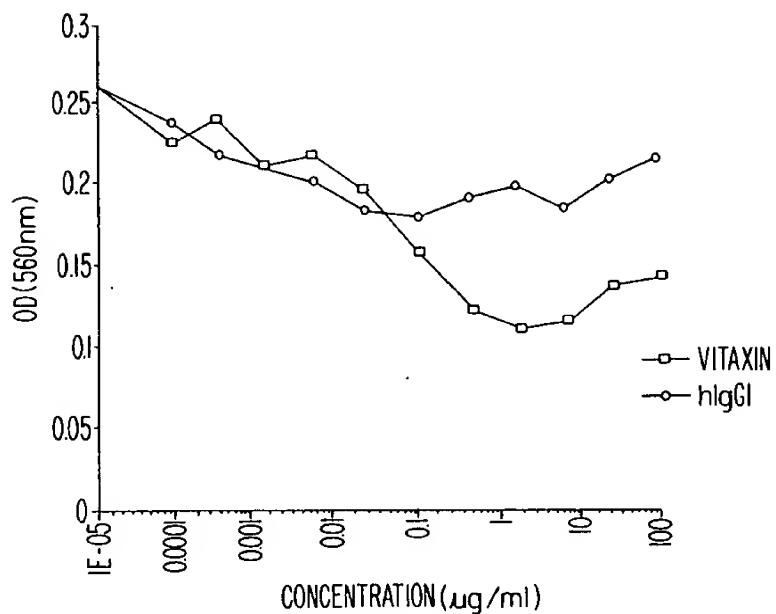


FIG. 4C

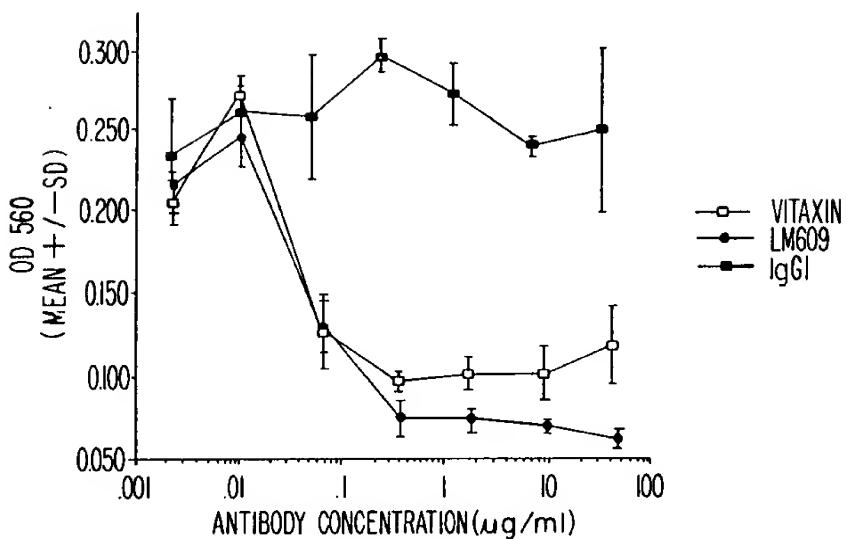


FIG. 5A

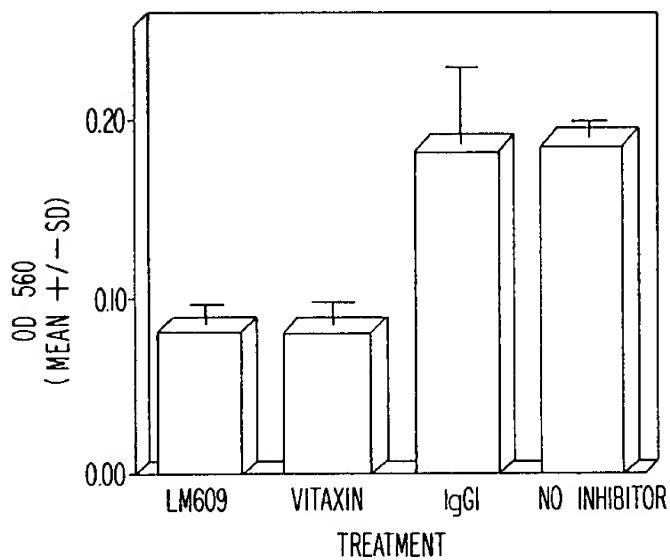


FIG. 5B

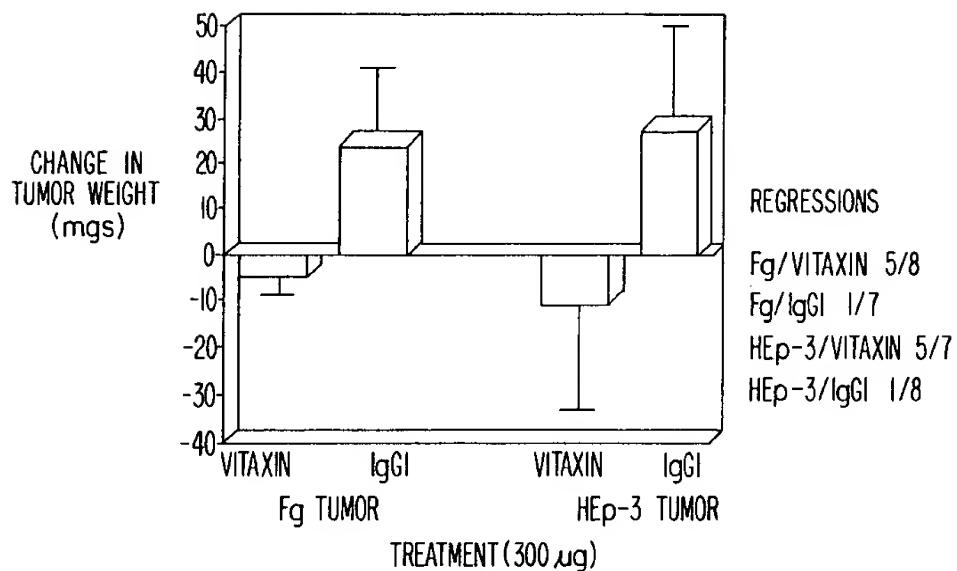


FIG. 6A

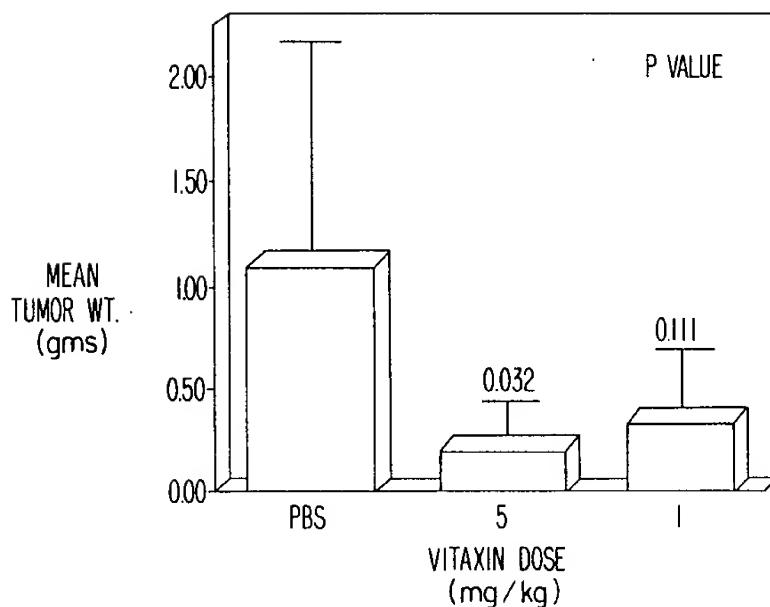


FIG. 6B

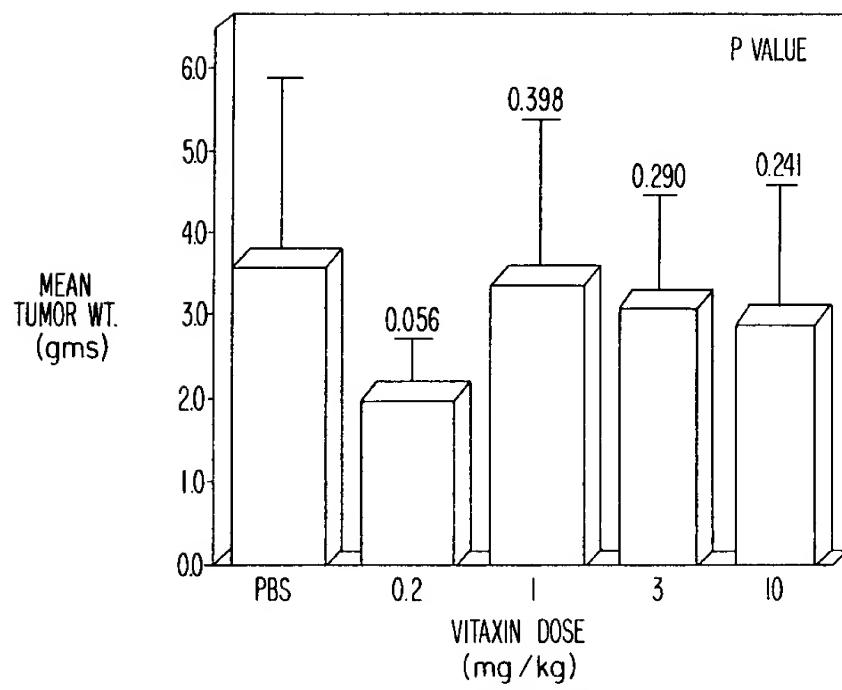


FIG. 6C

GAG ATT GTG CTA ACT CAG TCT CCA	GCC ACC CTC TCT AGC CCA GGA	48
Glu 1 Ile Val Leu Thr	Gin Ser Pro Ala Thr Leu Ser Pro Gly	
	10	15
GAA AGG GCG ACT CTT TCC TGC CAG	GCC AGC CAA AGT ATT AGC AAC CAC	96
Glu Arg Ala Thr	Leu Ser Cys Gin Ala Ser Gin Ser Ile Ser Asn His	
20	25	30
CTA CAC TGG TAT CAA CAA AGG CCT	GAA GCC CCA AGG CTT CTC ATC	144
Leu His Trp Tyr 35	Gin Gin Arg Pro Gly Ala Pro Arg Leu Ile	
	40	45
CGT/ATG TAT CGT TCC CAG TCC ATC TCT	GGG ATC CCC GCC AGG TTC AGT GGC	192
Arg/Met Tyr Arg Ser 50	Gin Ser Ile Ser Gly Ile Pro Ala Arg Phe Ser Gly	
	55	60
AGT GGA TCA GGG ACA GAT TTC ACC CTC	ACT ATC TCC AGT CTG GAG CCT	240
Ser Glu Ser Gly Thr Asp 65	Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro	
	70	75
GAA GAT TTT GCA GTC TAT TAC TGT CAA	CAG AGT GGC AGC TGG CCT CAC	288
Glu Asp Phe Ala Val Tyr 85	Tyr Cys Gin Gin Ser Glu Ser Trp Pro His	
	90	95
ACG TTC GGA GGG ACC AAG GTG GAA ATT AAG		
Thr Phe Glu Glu 100	Val Lys Val Glu Ile Lys	
	105	

FIG. 7

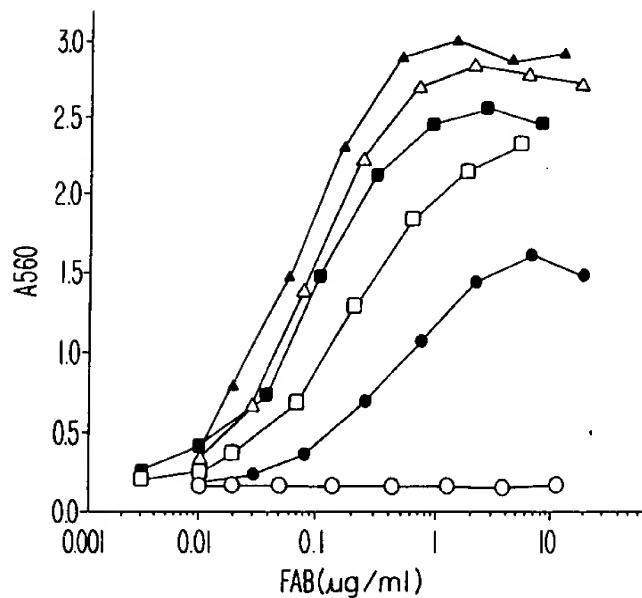


FIG.8

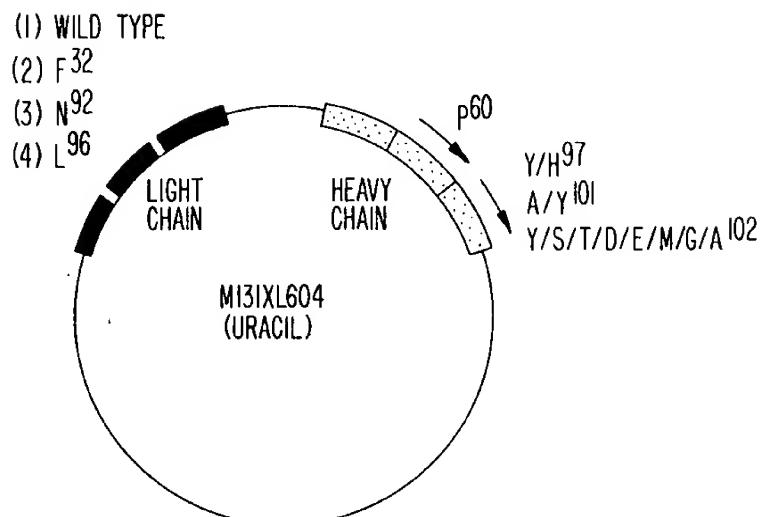


FIG.9

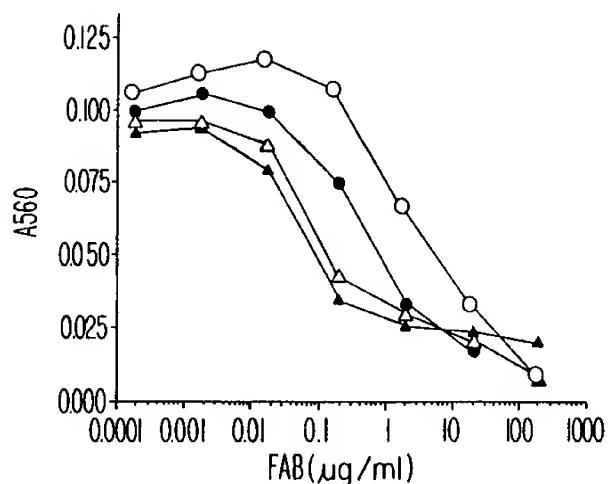


FIG. IOA

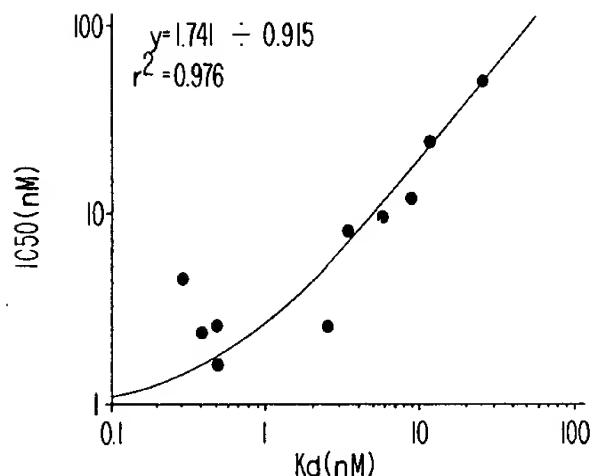


FIG. IOB

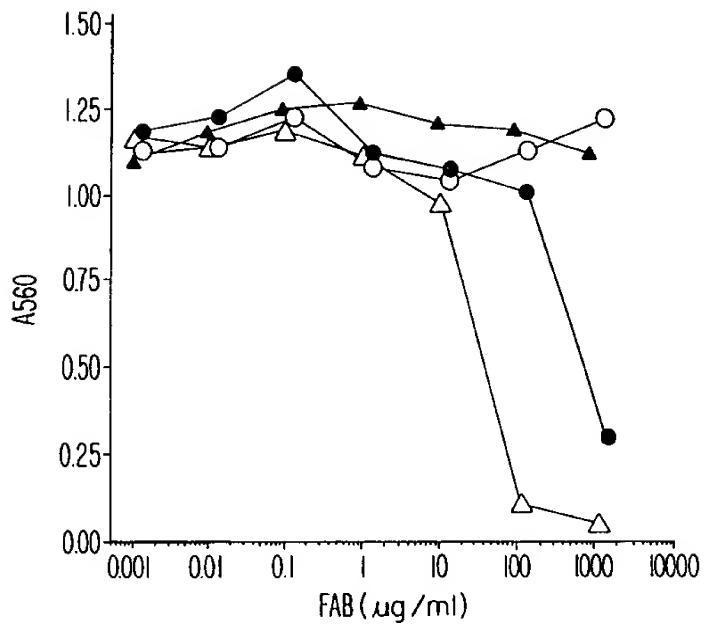


FIG. 11